

# Sampurna Chatterjee

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## Education

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- Max Planck Institute for Metabolism Research, Cologne, Germany** **Jan 2010 – Sep 2014**  
Ph.D. in Molecular Medicine; focus on Advanced Lung Cancer Research, GPA 4.0
- Developed novel therapeutic regimens for advanced lung-cancer patients.
  - Collaborated with clinicians in Germany to lay the ground work for a Phase I/II clinical trial based on my pre-clinical findings.
  - Orally represented University Hospital of Cologne for the 'Centre of Excellence in Cancer Research' in front of an internationally acclaimed jury of 15 from life science academia and industry that included Dr. Jay Loeffler (Chief, Radiation Oncology, MGH).
  - 5 peer-reviewed publications in international journals, 3 fellowships, 2 travel awards, 12 conference talks.
- University of Crete, Greece** **June 2011 – Sep 2011**  
• Exchange PhD semester, Awarded Erasmus scholarship (\$6500 for 4 months)
- University of Glasgow, UK** **Sep 2007 – Sep 2008**  
Master of Research (M.Res.) in Biomedical Sciences, Score Merit
- Award best speaker for oral thesis presentation.
- University of Calcutta, India** **July 2004 – July 2007**  
Bachelor of Science (B.Sc.) in Microbiology, GPA 3.7

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## Work Experience

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- Postdoctoral Research Fellow, Harvard Medical School, Massachusetts General Hospital (MGH), Boston, USA** **Jan 2015 – present**
- Developing novel and non-toxic translational therapeutics for pediatric brain cancer patients for a potential clinical trial.
  - Mentoring a team of 2 Masters students (1-year project each) and one Research Fellow (2-year project) in the areas of i) experiment design, ii) data analysis, iii) scientific communication and grant writing (2017 – present).
  - 3 peer-reviewed publications in international journals, 3 fellowships, 2 travel awards, 7 conference talks.
- Research Assistant, Medical University of Graz, Austria** **Jan 2009 – Sep 2009**
- Assisted in isolating stem cells from patients (30-40 patients /month); updated patient records.

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## Other professional activities

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- **Editorial Board Member**, European Journal of Clinical Oncology **Aug 2019 – present**
- **Consultant Scholar**, Prescouter, Inc. **Aug 2019 – present**
- **Peer Reviewer**, PLOS ONE **June 2017 – present**
- **Grant Evaluator**, Research Foundation Flanders (Belgium) **May 2017 – present**
- **Grant Evaluator**, Flemish Agency for Innovation and Entrepreneurship (Belgium). **May 2017 – present**

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## Fellowships and Awards

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| • PCR Young Investigator's Award, \$50,000     | 2018 – 2019 |
| • Cold Spring Harbor Labs Travel Award, \$5000 | 2018        |
| • MGH Medical Discovery Award, \$50,000        | 2017 – 2018 |
| • ABTA Basic Research Fellowship, \$100,000    | 2015 – 2017 |
| • ABTA Travel Award, \$2000                    | 2015        |
| • Max Planck PhD Student Fellowship, \$130,000 | 2010 – 2014 |
| • Max Planck Society Travel Award, \$2600      | 2012        |
| • Erasmus scholarship, \$6500                  | 2011        |

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## Core Competencies

- In-depth knowledge of cancer drug market
- Critical and analytical thinking skills
- Problem solving
- Excellent communication skills
- Goal oriented
- Highly adaptive and team player
- Leadership and decision making
- Time and priorities management

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## Publications

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**Chatterjee, S.**, Heukamp, L. C., Siobal, M., Schottle, J., Wiczorek, C., Peifer, M., Frasca, D., Koker, M., Konig, K., Meder, L., Rauh, D., Buettner, R., Wolf, J., Brekken, R. A., Neumaier, B., Christofori, G., Thomas, R. K., and Ullrich, R. T. (2013) Tumor VEGF:VEGFR2 autocrine feed-forward loop triggers angiogenesis in lung cancer. *J Clin Invest* 123, 1732-1740 [Featured by Max Planck Society News](#)

**Chatterjee, S.**, Wiczorek, C., Schottle, J., Siobal, M., Hinze, Y., Franz, T., Florin, A., Adamczak, J., Heukamp, L. C., Neumaier, B., and Ullrich, R. T. (2014) Transient antiangiogenic treatment improves delivery of cytotoxic compounds and therapeutic outcome in lung cancer. *Cancer Res* 74, 2816-2824.

Heukamp, L. C., Thor, T., Schramm, A., De Preter, K., Kumps, C., De Wilde, B., Odersky, A., Peifer, M., Lindner, S., Spruessel, A., Pattyn, F., Mestdagh, P., Menten, B., Kuhfittig-Kulle, S., Kunkele, A., Konig, K., Meder, L., **Chatterjee, S.**, Ullrich, R. T., Schulte, S., Vandesompele, J., Speleman, F., Buttner, R., Eggert, A., and Schulte, J. H. (2012) Targeted expression of mutated ALK induces neuroblastoma in transgenic mice. *Sci Transl Med* 4, 141ra191

Rothe, A., Jachimowicz, R. D., Borchmann, S., Madlener, M., Kessler, J., Reiners, K. S., Sauer, M., Hansen, H. P., Ullrich, R. T., **Chatterjee, S.**, Borchmann, P., Yazaki, P., Koslowsky, T. C., Engert, A., Heukamp, L. C., Hallek, M., and von Strandmann, E. P. (2014) The bispecific immunoligand ULBP2-aCEA redirects natural killer cells to tumor cells and reveals potent anti-tumor activity against colon carcinoma. *Int J Cancer* 134, 2829-2840

Schottle, J., **Chatterjee, S.**, Volz, C., Siobal, M., Florin, A., Rokitta, D., Hinze, Y., Dietlein, F., Plenker, D., Konig, K., Albus, K., Heuckmann, J. M., Rauh, D., Franz, T., Neumaier, B., Fuhr, U., Heukamp, L. C., and Ullrich, R. T. (2015) Intermittent high-dose treatment with erlotinib enhances therapeutic efficacy in EGFR-mutant lung cancer. *Oncotarget* 6, 38458-38468

Peterson, T. E., Kirkpatrick, N. D., Huang, Y., Farrar, C. T., Marijt, K. A., Kloepper, J., Datta, M., Amoozgar, Z., Seano, G., Jung, K., Kamoun, W. S., Vardam, T., Snuderl, M., Goveia, J., **Chatterjee, S.**, Batista, A., Muzikansky, A., Leow, C. C., Xu, L., Batchelor, T. T., Duda, D. G., Fukumura, D., and Jain, R. K. (2016) Dual inhibition of Ang-2 and VEGF receptors normalizes tumor vasculature and prolongs survival in glioblastoma by altering macrophages. *Proc Natl Acad Sci U S A* 113, 4470-4475

Askoxylakis, V., Badeaux, M., Roberge, S., Batista, A., Kirkpatrick, N., Snuderl, M., Amoozgar, Z., Seano, G., Ferraro, G. B., **Chatterjee, S.**, Xu, L., Fukumura, D., Duda, D. G., and Jain, R. K. (2017) A cerebellar window for intravital imaging of normal and disease states in mice. *Nat Protoc* 12, 2251-2262

Saif, M., Kwanten, W. H., Carr, J.A., Chen, I., Possada, J., Srivastava, A., Zhang, J., Zheng, Y., Pinter, M., **Chatterjee, S.**, Softic, S., Kahn, R., Bruns, O., and Jain, R. K. (2019) Tracking Oxidative Stress in NAFLD and Cirrhosis by NIR/SWIR Imaging of an Endogenous Biological Marker. *Nature Biomedical Engineering* (Manuscript under review)

## Citation Index

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Citations : 440

<https://scholar.google.com/citations?user=S0QjxpwAAAAJ&hl=en>

## Extra-Curricular Activities

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**Team finalist (COSMO5), TUFTS New England Case Competition (TUNECC) 2019**  
Applied life science strategy to streamline, diversify and restructure pipeline for a prominent pharma. Received highest positive critiques and score (29 out of 30) from L.E.K. Life Sciences Judges Panel.

**Team participant, Harvard / MIT Case Competition 2019**  
Applied strategic and analytical skills to solve a real-life business case in a team setting.

**Organizing committee member of MGPA Careers in Consulting Club at MGH Nov 2018 – present**

- Updating email subscription list (PhD students, Postdocs, Faculty and Staff at MGH, MIT and Harvard Medical School).
- Sending emails to about 120 subscribers with information on consulting events such as career fairs, resume critiques, fast math workshops, social networking events, application deadlines and case / interview preparation resources.
- Organizing consulting panel and info sessions (BCG, McKinsey & Company, IQVIA, GlobalData, Catenion GmbH) and leading weekly case practice sessions (10-12 attendees per session) for PhD students and Postdocs.
- Designing the consulting club webpage and logo.

**Representing as a patient advocate for 2 kids surviving brain cancer at MGH 2015 - present**  
Working with an 8- and a 12-year-old kid with recurrent brain tumors undergoing treatment at MGH to **i)** spread awareness by creating short videos on social media and **ii)** fundraising (\$50,000 raised in 2018) by organizing walks, cycling events and runs.

**Judging science fair at Timilty Middle School, Roxbury, MA 2015 - 2018**  
Grading science projects of 7<sup>th</sup> and 8<sup>th</sup> graders (25 students) annually and selecting top 3 students based on innovation and technique.

## Skills and Interests

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**Languages:** English (native), German (fluent), Hindi (native), Bengali (native).

**Softwares:** Adobe (Photoshop, Illustrator), Prism, Stata, Python (currently enrolled).

**Activities:** Lead vocalist and musician at the World Music Ensemble at Harvard University comprised of 25 musicians, soccer- and Zumba- team member, hiking the Austrian Alps, White Mountains (NH), the Grand Canyon.